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Listing of Claims

1-8 (Canceled)

9. (Currently Amended) The composition of Claim 1, A luminescent organometallic complex composition of matter, the composition comprising

at least one transition metal, M, that produces phosphorescent emission at room temperature;

at least one first monoanionic bidentate ligand coordinated through a nitrogen on a heteroaromatic ring and a carbon which is part of an aromatic group; and

at least one second ligand, coordinated through a carbon atom on an aromatic group and having Formula III

 $Ar[-(CH_2)_m-Y]_p$

Formula III

<u>wherein</u>

Ar is an aromatic group,

Y is a group having a heteroatom capable of coordinating to metal M,

m is an integer from 1 through 20,

p is an integer from 1 through 5,

and further wherein one or more of the hydrogens in (CH₂)_m can be replaced with D or F[[.]], wherein Y is selected from NR²₂, OR², SR², and PR³₂, wherein

R² is the same or different at each occurrence and is H or C_nH_{2n+1}; and

R³ is the same or different at each occurrence and is selected from H. R², and Ar.

10-14 (Canceled)

15. (Currently Amended) The composition of Claim [[1]] $\underline{9}$, wherein M is iridium, the first ligand is phenylpyridine with substituents, the second ligand is α, α' -diphenylphosphino-m-xylene.

16-29 (Canceled)

30. (Previously Presented) A luminescent organometallic complex composition of matter, the composition comprising

iridium;

at least one first ligand which is a phenylpyridine with substituents; at least one second hydride ligand; and two diarylbenzylphosphine ligands.

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31. (Currently Amended) A luminescent organometallic complex composition of matter selected from:

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where Ph is phenyl and Bz is benzyl.

32. (Currently Amended) The composition of Claim [[1]] $\underline{9}$, wherein Ar is phenyl, m is 1, Y is P(Ar)₂, and p is 1 or 2.